

## COMBINATION CURRENT SENSOR AND RELAY

## ABSTRACT OF THE DISCLOSURE

5 A protection device for monitoring current in a power cable to an electrical device and for controlling a remotely located starter for the electrical device in response to a system controller. The device includes a transformer magnetically linked with the power cable to produce a voltage signal in response to the presence of a  
10 changing current within the power cable. An input circuit located in a single housing together with the transformer is electrically connected to the transformer so as to receive the voltage signal. The input circuit produces, in response to the voltage signal, either a  
15 first signal or a first circuit condition at the output terminal of the input circuit, representative of the changing current in the power cable. A switch circuit also in the same container with the transformer has a terminal for sensing either a second signal or a second  
20 circuit condition of the remotely located system controller. The switch circuit has a second terminal to provide either a third signal or a third circuit condition effective to control the starter, in response to sensing one of the second signal and the second circuit  
25 condition. All of the transformer, the input circuit, and the switch circuit are located in a single unitary package which is easily mounted and adjusted to a desired position.